

What is claimed is:

1. A small vibration motor comprising:
  - a rotor yoke in which an unbalance weight and a magnet are placed and is fixed to a shaft;
  - 5 a driving torque generating coil that is placed on a substrate so as to face said magnet; driving electronic parts placed on said substrate, which comprises an integrated circuit comprising non-molded bare chips, supplies an
  - 10 alternating current to said driving torque generating coil to rotate said rotor yoke around said shaft;
  - a bottom plate which supports said substrate and to which a radial bearing that said shaft is engaged with is fixed; and
  - 15 a cover for covering said rotor yoke, said driving torque generating coil and said driving electronic parts, which is adhered to said bottom plate.

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- 2. The small vibration motor according to claim 1, wherein said substrate comprises a flexible substrate, and said driving torque generating coil is electrically connected to said flexible substrate through three terminals.

- 3. The small vibration motor according to claim 1, further comprising a terminal that is formed on a substrate protruded from said package, and engaged with a connector mounted on a motherboard, and thereby electrically connected.

4. The small vibration motor according to  
claim 1, further comprising a terminal that is placed  
on said cover or said bottom plate and engaged with  
5 a socket mounted on a motherboard and thereby  
electrically connected.

5. The small vibration motor according to  
claim 1, further comprising a land which is formed  
10 on a surface of said cover or said bottom plate and  
in contact with a motherboard, and electrically  
connected to another land formed on said  
motherboard.

15 6. A method of manufacturing a small  
vibration motor, comprising the steps of:

mounting driving electronic parts and a driving  
torque generating coil on a substrate;

20 placing a magnet on a rotor yoke so as to face  
said driving torque generating coil, in a rotor  
comprising said rotor yoke and a shaft;

placing an unbalance weight at a part of said  
rotor yoke;

fixing a radial bearing to a bottom plate;

25 installing a bottom plate, on which said radial  
bearing is placed, to said substrate;

installing said rotor to said radial bearing  
which is engaged with said shaft; and

30 packaging by covering said substrate, said  
driving electronic parts and said rotor with a cover,  
and adhering said cover to said bottom plate.

7. The method of manufacturing the small vibration motor, according to claim 6, wherein as said driving electronic parts, at least an 5 integrated circuit comprising non-molded bare chips is mounted on said substrate.

8. The method of manufacturing the small vibration motor, according to claim 6, wherein said 10 substrate comprises a flexible substrate, and said driving torque generating coil is electrically connected to said flexible substrate through three terminals.

15 9. The method of manufacturing the small vibration motor, according to claim 6, further comprising a step of forming a terminal on a substrate protruded from said package, which is engaged with a connector mounted on a motherboard, 20 and thereby electrically connected.

10. The method of manufacturing the small vibration motor, according to claim 6, further comprising a step of placing a terminal on said 25 package, which is engaged with a socket mounted on a motherboard, and thereby electrically connected.

11. The method of manufacturing the small vibration motor, according to claim 6, further 30 comprising a step of forming a land on a surface in contact with said motherboard of said package, which

is electrically connected to another land formed on a motherboard.